

1/26

SEQUENCE LISTING

<110> FERRING B.V.

<120> NOVEL USE

<130> 052209-0113

<150> US 60/538,512

<151> 2004-01-26

<160> 43

<170> PatentIn version 3.2

<210> 1

<211> 34

<212> PRT

<213> Homo sapiens

<400> 1

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Ser | Glu | Ile | Gln | Leu | Met | His | Asn | Leu | Gly | Lys | His | Leu | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Met | Glu | Arg | Val | Glu | Trp | Leu | Arg | Lys | Lys | Leu | Gln | Asp | Val | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Asn Phe

<210> 2

<211> 34

<212> PRT

<213> Bos taurus

<400> 2

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ser | Glu | Ile | Gln | Phe | Met | His | Asn | Leu | Gly | Lys | His | Leu | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Met | Glu | Arg | Val | Glu | Trp | Leu | Arg | Lys | Lys | Leu | Gln | Asp | Val | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Asn Phe

<210> 3

<211> 34

<212> PRT

<213> Homo sapiens

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<400> 3

Ala Val Ser Glu His Gln Leu Leu His Asp Lys Gly Lys Ser Ile Gln
1 5 10 15

Asp Leu Arg Arg Arg Phe Phe Leu His His Leu Ile Ala Glu Ile His
20 25 30

Thr Ala

<210> 4

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

<220>

<221> MOD_RES

<222> (8)..(8)

<223> Nle

<220>

<221> MOD_RES

<222> (12)..(12)

<223> Aib

<220>

<221> MOD_RES

<222> (18)..(18)

<223> Nle

<220>

<221> MOD_RES

<222> (23)..(23)

<223> 2-Nal

<220>

<223> see specification as filed for preferred embodiments

<400> 4

Ala Val Ser Glu Ile Gln Phe Xaa His Asn Leu Xaa Lys His Leu Ser
1 5 10 15

Ser Xaa Glu Arg Val Glu Xaa Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Tyr

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<210> 5
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<223> see specification as filed for preferred embodiments

<400> 5
Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Leu Leu Glu Lys Leu Leu Glu Lys Leu His
20 25 30

Asn Phe

<210> 6
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<223> see specification as filed for preferred embodiments

<400> 6
Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Glu Lys Lys Leu Glu Lys Val His
20 25 30

Asn Phe

<210> 7
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

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<220>

<223> see specification as filed for preferred embodiments

<400> 7

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Ser | Glu | Ile | Gln | Leu | Met | His | Asn | Leu | Gly | Lys | His | Leu | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Met | Glu | Arg | Val | Glu | Leu | Leu | Arg | Lys | Leu | Leu | Gln | Asp | Leu | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Asn Phe

<210> 8

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

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<222> (26)...(26)

<223> Aib

<220>

<223> see specification as filed for preferred embodiments

<400> 8

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ser | Glu | His | Gln | Leu | Leu | His | Asp | Lys | Gly | Lys | Ser | Ile | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Leu | Arg | Arg | Arg | Phe | Phe | Leu | His | Xaa | Leu | Ile | Ala | Glu | Ile | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Thr Ala

<210> 9

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

<220>

<221> MOD_RES

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<222> (32)..(32)

<223> Thi

<220>

<223> see specification as filed for preferred embodiments

<400> 9

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ser | Glu | His | Gln | Leu | Leu | His | Asp | Lys | Gly | Lys | Ser | Ile | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Leu | Arg | Arg | Arg | Glu | Leu | Leu | Glu | Lys | Leu | Leu | Glu | Lys | Leu | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Thr Ala

<210> 10

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

<220>

<223> see specification as filed for preferred embodiments

<400> 10

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ser | Glu | His | Gln | Leu | Leu | His | Asp | Lys | Gly | Lys | Ser | Ile | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Leu | Arg | Arg | Arg | Glu | Leu | Leu | Glu | Lys | Leu | Leu | Glu | Leu | Leu | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Thr Ala

<210> 11

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

<220>

<223> see specification as filed for preferred embodiments

<400> 11

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ser | Glu | His | Gln | Leu | Leu | His | Asp | Lys | Gly | Lys | Ser | Ile | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

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Asp Leu Arg Arg Arg Phe Leu Leu His His Leu Leu Ala Glu Leu His
20 25 30

Thr Ala

<210> 12
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<223> see specification as filed for preferred embodiments

<400> 12
Ala Val Ser Glu His Gln Leu Leu His Asp Lys Gly Lys Ser Ile Gln
1 5 10 15

Asp Leu Arg Arg Arg Glu Phe Leu Glu Lys Leu Ile Glu Lys Ile His
20 25 30

Thr Ala

<210> 13
<211> 34
<212> PRT
<213> Artificial Sequence

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<222> (18)..(18)
<223> beta-Ala

<220>
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<223> Nal

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<220>

<223> see specification as filed for preferred embodiments

<400> 13

Ala Val Ser Glu Ile Gln Phe Xaa His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Ser Xaa Glu Arg Val Glu Xaa Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Tyr

<210> 14

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

<220>

<221> MOD_RES

<222> (8)..(8)

<223> Nle

<220>

<221> MOD_RES

<222> (18)..(19)

<223> beta-Ala

<220>

<221> MOD_RES

<222> (23)..(23)

<223> Nal

<220>

<223> see specification as filed for preferred embodiments

<400> 14

Ala Val Ser Glu Ile Gln Phe Xaa His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Ser Xaa Xaa Arg Val Glu Xaa Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Tyr

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<210> 15
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

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<222> (8)..(8)
<223> Nle

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<222> (18)..(18)
<223> Nle

<220>
<221> MOD_RES
<222> (19)..(19)
<223> beta-Ala

<220>
<221> MOD_RES
<222> (23)..(23)
<223> Nal

<220>
<223> see specification as filed for preferred embodiments

<400> 15
Ala Val Ser Glu Ile Gln Phe Xaa His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Ser Xaa Xaa Arg Val Glu Xaa Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Tyr

<210> 16
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

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<222> (8) .. (8)

<223> Nle

<220>

<221> MOD_RES

<222> (18) .. (18)

<223> beta-hLeu

<220>

<221> MOD_RES

<222> (19) .. (19)

<223> beta-Ala

<220>

<221> MOD_RES

<222> (23) .. (23)

<223> Nal

<220>

<223> see specification as filed for preferred embodiments

<400> 16

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ser | Glu | Ile | Gln | Phe | Xaa | His | Asn | Leu | Gly | Lys | His | Leu | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Xaa | Arg | Val | Glu | Xaa | Leu | Arg | Lys | Lys | Leu | Gln | Asp | Val | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Asn Tyr

<210> 17

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

<220>

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<222> (8) .. (8)

<223> Nle

<220>

<221> MOD_RES

<222> (17) .. (17)

<223> beta-Ala

<220>

<221> MOD_RES

<222> (18) .. (18)

<223> beta-hLeu

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<220>
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<222> (19)..(19)
<223> beta-Ala

<220>
<221> MOD_RES
<222> (23)..(23)
<223> Nal

<220>
<223> see specification as filed for preferred embodiments

<400> 17
Ala Val Ser Glu Ile Gln Phe Xaa His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Xaa Xaa Xaa Arg Val Glu Xaa Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Tyr

<210> 18
<211> 34
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<213> Artificial Sequence

<220>
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<222> (16)..(16)
<223> beta-Ala

<220>
<221> MOD_RES
<222> (18)..(18)
<223> Nle

<220>
<223> see specification as filed for preferred embodiments

<400> 18
Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Xaa
1 5 10 15

Ser Xaa Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

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Asn Phe

<210> 19
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> Nle

<220>
<221> MOD_RES
<222> (20)..(20)
<223> beta-Ala

<220>
<223> see specification as filed for preferred embodiments

<400> 19
Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Ser Xaa Glu Xaa Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

<210> 20
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
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<222> (17)..(17)
<223> beta-Ala

<220>
<221> MOD_RES

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<222> (18)..(18)

<223> Nle

<220>

<223> see specification as filed for preferred embodiments

<400> 20

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ser | Glu | Ile | Gln | Phe | Met | His | Asn | Leu | Gly | Lys | His | Leu | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Glu | Arg | Val | Glu | Trp | Leu | Arg | Lys | Lys | Leu | Gln | Asp | Val | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Asn Phe

<210> 21

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

<220>

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<222> (18)..(18)

<223> beta-Ala

<220>

<223> see specification as filed for preferred embodiments

<400> 21

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ser | Glu | Ile | Gln | Phe | Met | His | Asn | Leu | Gly | Lys | His | Leu | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Glu | Arg | Val | Glu | Trp | Leu | Arg | Lys | Lys | Leu | Gln | Asp | Val | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Asn Phe

<210> 22

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

13/26

<220>
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<223> Nle

<220>
<221> MOD_RES
<222> (19)..(19)
<223> beta-Ala

<220>
<223> see specification as filed for preferred embodiments

<400> 22
Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Ser Xaa Xaa Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

<210> 23
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
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<223> beta-hSer

<220>
<221> MOD_RES
<222> (18)..(18)
<223> Nle

<220>
<223> see specification as filed for preferred embodiments

<400> 23
Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Xaa Xaa Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

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Asn Phe

<210> 24
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

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<223> beta-hLeu

<220>
<223> see specification as filed for preferred embodiments

<400> 24
Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Ser Xaa Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

<210> 25
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
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<223> Nle

<220>
<221> MOD_RES
<222> (19)..(19)
<223> beta-hGlu

<220>
<223> see specification as filed for preferred embodiments

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<400> 25

Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Ser Xaa Xaa Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

<210> 26

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

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<220>

<221> MOD_RES

<222> (17)..(17)

<223> beta-Ala

<220>

<221> MOD_RES

<222> (18)..(18)

<223> beta-Ala

<220>

<223> see specification as filed for preferred embodiments

<400> 26

Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Xaa Xaa Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

<210> 27

<211> 34

<212> PRT

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<223> Synthetic peptide

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<220>
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<222> (18)..(19)
<223> beta-Ala

<220>
<223> see specification as filed for preferred embodiments

<400> 27
Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Ser Xaa Xaa Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

<210> 28
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<212> PRT
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<220>
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<220>
<223> see specification as filed for preferred embodiments

<400> 28
Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Xaa Xaa Xaa Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

17/26

Asn Phe

<210> 29
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<220>
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<223> beta-hLeu

<220>
<223> see specification as filed for preferred embodiments

<400> 29
Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Xaa Xaa Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

<210> 30
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18/26

<220>

<223> see specification as filed for preferred embodiments

<400> 30

Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Ser Xaa Xaa Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

<210> 31

<211> 34

<212> PRT

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<220>

<223> see specification as filed for preferred embodiments

<400> 31

Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Ser Xaa Xaa Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

<210> 32

<211> 34

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19/26

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<223> beta-hGlu

<220>
<223> see specification as filed for preferred embodiments

<400> 32
Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Xaa Xaa Xaa Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

<210> 33
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<222> (18)..(18)
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<220>
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20/26

<222> (19)..(19)

<223> beta-Ala

<220>

<223> see specification as filed for preferred embodiments

<400> 33

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ser | Glu | Ile | Gln | Phe | Met | His | Asn | Leu | Gly | Lys | His | Leu | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Xaa | Arg | Val | Glu | Trp | Leu | Arg | Lys | Lys | Leu | Gln | Asp | Val | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Asn Phe

<210> 34

<211> 35

<212> PRT

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<222> (19)..(19)

<223> beta-Ala

<220>

<223> see specification as filed for preferred embodiments

<400> 34

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ser | Glu | Ile | Gln | Phe | Met | His | Asn | Leu | Gly | Lys | His | Leu | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Xaa | Glu | Arg | Val | Glu | Trp | Leu | Arg | Lys | Lys | Leu | Gln | Asp | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

His Asn Phe

35

21/26

<210> 35
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<213> Artificial Sequence

<220>
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<220>
<223> see specification as filed for preferred embodiments

<400> 35
Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Xaa Xaa Xaa Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

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<220>
<223> see specification as filed for preferred embodiments

<400> 36
Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Xaa Xaa Xaa Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

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<220>
<223> see specification as filed for preferred embodiments

<400> 37
Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Xaa Xaa Xaa Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

23/26

Asn Phe

<210> 38
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<220>
<223> see specification as filed for preferred embodiments

<400> 38
Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Xaa Xaa Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

<210> 39
<211> 34
<212> PRT
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24/26

<220>

<223> see specification as filed for preferred embodiments

<400> 39

Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Ser Xaa Xaa Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

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<223> beta-hGlu

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<223> see specification as filed for preferred embodiments

<400> 40

Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Xaa Xaa Xaa Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

25/26

<210> 41
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<220>
<223> see specification as filed for preferred embodiments

<400> 41
Ala Val Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser
1 5 10 15

Xaa Xaa Xaa Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

<210> 42
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26/26

<222> (12) .. (12)
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<222> (23) .. (23)
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<220>
<223> see specification as filed for preferred embodiments

<400> 42
Ser Val Ser Glu Ile Gln Leu Xaa His Asn Leu Xaa Lys His Leu Asn
1 5 10 15

Ser Xaa Glu Arg Val Glu Xaa Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Tyr

<210> 43
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<212> PRT
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<220>
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<222> (12) .. (12)
<223> Aib

<220>
<223> see specification as filed for preferred embodiments

<400> 43
Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Xaa Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe